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AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) An isolated pathogenic Leptospira bacterium, wherein said bacterium comprises a genetic sequence selected from the group consisting of:
- a) SEQ ID NO: 1; and
- b) a sequence having at least 99% identity to SEQ ID NO: 1, and
- a sequence complementary to one of the foregoing sequences; wherein said bacterium is cross-reactive in a cross-agglutination absorption assay with the Leptospira strain WKID deposited under AGAL Accession No. N95/69684
- 2. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 1, wherein said bacterium grows in media containing 8-azaguanine and at a temperature in the range from about 13°C to about 37°C.
- 3. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 2, wherein said bacterium grows in media containing at least 100 μg/ml 8-azaguanine.
- 4. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 2, wherein said bacterium grows at temperatures in the range from about 13°C to about 37°C.
- 5. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 1, wherein said bacterium is a pathogen that infects a mammal selected from the group consisting of: human, livestock animal, and companion animal.
- 6. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 5, wherein said bacterium infects pigs.
- 7. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 5, wherein said bacterium infects humans.
- 8. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 5, wherein said bacterium infects bovines.
- 9. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 5, wherein said bacterium produces the symptoms of leptospirosis in a human or other animal which it infects.
- 10. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 1, wherein said bacterium induces reproductive disease.

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- 11. (Previous) presented) The isolated pathogenic Leptospira bacterium according to claim 10, wherein the reproductive disease induced by said bacterium comprises a lower rate of farrowing in an infected animal compared to a non-infected animal.
- 12. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 10, wherein the reproductive disease induced by said bacterium comprises fetal death in utero or spontaneous abortion.
- 13. (Previously presented) The isolated pathogenic Leptospira bacterium according to claim 10, wherein the reproductive disease causes the weaning-to-mating period for the offspring of an infected animal to be longer than for the offspring of a non-infected animal.
- 14. (Original) The isolated pathogenic Leptospira bacterium according to Claim 10, wherein the reproductive disease induced by said bacterium comprises seasonal infertility.
 - 15. (Canceled)
 - 16. (Canceled)
 - 17. (Canceled)
 - 18. (Canceled)
- 19. (Currently amended) The isolated Leptospira bacterium according to claim 1, wherein the bacterium has the following characteristics of the microorganism deposited under AGAL Accession No. N95/69684:

the bacterium belongs to the species of Leptospira fainei,

the bacterium grows at temperatures in the range from about 13°C to about 37°C,

the bacterium grows in media containing at least 225 mg/ml 8-azaguanine,

the bacterium is capable of infecting a lifestock or a companion animal; and

the bacterium is capable of inducing reproductive disease in at least one of said animals.

- 20. (Previously presented) An isolated Leptospira bacterium consisting of Leptospira strain WKID (AGAL Accession No. N95/69684).
 - 21.-74. (Canceled)
- 75. (Previously presented) The isolated Leptospira bacterium according to claim 5, wherein said livestock and companion animals are selected from the group consisting of: pigs, bovines, sheep, goats, horses, deer, alpaca, dogs and cats.

76.-123. (Canceled)

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- 124. (Previous presented) The isolated Leptospira bacterium according to claim 1, wherein said bacterium is a non-infectious or attenuated bacterium.
- 125. (Previously presented) The isolated Leptospira bacterium according to claim 124, wherein said attenuated bacterium consists of a killed isolated bacterium.
- 126. (Previously presented) The isolated pathogenic Leptospira bacterium of claim
 124 in combination with a pharmaceutically-acceptable carrier or diluent.
 - 127. (Canceled)